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PATENT ABSTRACTS OF JAPAN

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(54) REAGENT FOR MEASUREMENT OF ENZYME IMMUNITY AND PREPARATION THEREOF

(57)Abstract:

PURPOSE: To improve the measuring sensitivity and reproducibility by making β-D-galactosidase (B-D-gal) as an enzyme marker and bonding three molecules of an antigen or antibody to one molecule of the enzyme marker thereby to obtain a reagent for enzyme immunity measurement.

CONSTITUTION: B-D-gal is an enzyme originated from colibacillus, having the molecular weight of 500,000 and showing superior stability when used as an antibody marker. An antibody obtained, for example, by immunizing an animal against an antigen, or a fragment having the antigen avidity and obtained by making a protein lytic enzyme act to the above antibody may be usable as an antibody to mark an enzyme. A bridging agent having maleimide group is employable when the B-D-gal is to be marked to an antibody. If an enzyme marker antibody obtained by bonding three molecules of antibodies with one molecule of the B-D-gal with using the B-D-gal as a marker enzyme

is prepared to be a suitable concentration to a buffer solution of pH2·8 and used for the enzyme immunity measurement, the enzyme markers of a proper number of antibodies is used as a reagent and therefore, it becomes easy to detect an object to be detected.

LEGAL STATUS

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